

## Editorial Comment

## The Spirit of Giving

## Many of us bemoan the commercialism of the Chrisimas

 season: the somewhat premature appearance of Santa Claus on Thanksgiving, the "I want this" and "I want that" of our children, the too zealous sales promotions, and a sometimes forced spirit of yuletide.And yet joy and warmth still pervade our society during this holiday season-the season of "good will toward men," and "the season to be jolly."

The spirit of giving prevails. Not evidenced simply by gifts beneath the tree, but evidenced by people at work, at home, and in the community, as understanding, tolerance, and respect are extended to one another.

During this hectic period of last-minute shopping and Christmas card mailings, the better qualities of human nature survive, and the "Bah, humbug!" of Ebenezer Scrooge remains buried in fiction.

Would it be possible, we wonder, to make our first New Year's resolution a pledge to maintain throughout the year these better qualities-this Christmas spirit of giving of ourselves, of tolerance, of understanding, and of good will toward men?

## Tranquilizers, Drugs Dangerous When Combined With Alcohol

by S. P. Bliss, M.D.

Sandia Corporation Medical Director There is a common motto which states: If you drive, don't drink-if you drink, don't drive. Much less publicized, but equally important, is the trink, don't take drugs, don't drink-il you drink, don't take drugs.
Recently the deaths of three well-known personalities have been attributed to the ingestion of the combination of sedatives and/or tranquilizers and alcohol. There ed to this cause which have not come to the notice of the public.
Alcohol is primarily a central nervous system depressant. In acute fulminating poisoning by this agent, death is often the result of complete depression of the respiratory center in the brain. Alcohol also depresses and interferes with operation of the liver, an organ which has many functions including the all-important one of detoxification.
All sedatives and many of the tranquilizers are central nervous system depressants. Thus, the alcohol/sedative/tranquilizer combination increases these depressions to a dangerous level. Furthermore, the decrease in the liver function caused by alcohol ingestion allows the sed-
ative/tranquilizer to exert a greater deative/tranquilizer to exert a greater de-

SANDIA CORPORATION
LAB NEWS

albuquerque, new mexico - livermore, california
Editor: Robert C. Colgan Editorial Offices Sandia Laboratory Albuquerque, New Mexico
Employee Publications

BIdg. 800
Room 112
Room 112
Tel: 264.1053
Livermore Laboratory
Livermore, California Public Information
Bldg. 912
Tel: Hilltop 7-5100, Ext. 2395 Permission to reprint material contained herein for
other than governmental use may be obtained Other than governmental wse may $\begin{aligned} & \text { be obtained } \\ & \text { from the Editor, Lab News, Sandia Corporation. }\end{aligned}$
pressant effect, for there is more of the drug available to circulate in the blood stream.
At the present time, there are many tranquilizers and sedatives on the market which are prescribed by doctors. The majority of patients who are taking these types of drugs are not aware of the dangers of adding alcohol. The following rules should be followed in order to avoid the possibility of unfortunate events:

1. Don't ever take any sedative or tranquilizer without a doctor's order.
2. Don't take any sedative or tranquilizers when you have ingested any alcohol. 3. Don't drink if you have already taken a sedative or tranquilizer.
3. Check with your doctor on the advisability of drinking if you regularly take any sedative or tranquilizer.
Generally, most drugs and alcohol do not mix well and, therefore, one should abstain from drinking while being medicated.


NOBEL PRIZE WINNER Dr. Charles H. Townes (right) spoke before the Sandia Research Colloquium Monday on "Interactions Between Intense Light Beams and Optical Media." He was introduced by Dr. R. C. Fletcher, Vice President 500 ,
Nobel physics award in 1964 for his idea of the MASER.

As the time gets closer to Christmas, more charity projects are being organized throughout Sandia Laboratory. It is a Sandia tradition to help others during the holidays instead of exchanging Christmas cards with fellow workers.


## Organizations Continue Their Interest in Charitable Projects

Materials and Process Development Organization 1100 is collecting money to be donated to All Faiths Home (or any othe ignate) Secretaries throughout the des zation will be accepting contributiongan this purpose through Dec. 20 h Dec. 20.
The New Mexico Boys' Ranch at La Joya will be the recipient of food, clothing, and money collected by members of Employ Wage and Salary Administration Depart ment 3110, and Organization and Manpower Development Department 3130. The donations will be taken to the school this nations will be taken to the school this weekend. Committee workers include O L. Puccini, Dolores Downs, Esther Allen trager, and Mollie Miller.
In Design Information Center 2200 , employees are concentrating their efforts on getting money to purchase food baskets for needy families. Last year, Design Definition Department 2210 raised $\$ 443$ to feed 30 families. John Bewley (2211-4) is in charge of that department's project this year.
Tomorrow, the annual United Unionssponsored Christmas party will be held a Riverview Elementary School. Both members of the three bargaining unions and hon-union employees have contributed to the success of this yearly event. Santa Claus will arrive at the school yard by helicopter after which gifts will be distributed to the children, and there will be refreshments and entertainment.

## PAGE TWO

LAB NEWS
DECEMBER 17, 1965


VERIFYING A REQUEST for a visit to another classified installation, Judy Oliveira (left) and Imogene Kelly (both 8241) compare the short information request form submitted by the employee with the AEC-277 form Judy has removed from the facsimile Teletype machine.
Transmission on the newly-established Teletype facility between Sandia, LRL, and AEC/SAN ir restricted to unclassified information.

## Visitor Control Teletype System Used Between SCLL, LRL, and AEC

Livermore Laboratory's Visitor Control and Travel Section 8241-1 is now proces sing unclassified requests for visits to or from other classified installations (Form AEC-277) via a direct tie-line Teletype facility established between SCLL, LRL and AEC/SAN in Berkeley, Calif. Previously the Teletype circuit operated only between LRL and AEC/SAN, while Sandia used telephone communication for these equests.
Under the new three-station Teletype network, a facsimile machine transmits the visit request information. As information is typed at the machine onto the AEC-277 form, it simultaneously appears in identical form at the receiver's station. A copy of the form then goes to the requester for his record. A tape capability is available to keep machine use time at a minimum. Information as typed can be perforated onto a tape for late ransmission at a rate of approximately 100 words per minute.
With the system in operation, many mith


CHRISTMAS CONTRIBUTIONS - Gene Helz (8163) makes a charity contribution while Katie Heineman holds gay collection can she decorated for the project. Livermore Laboratory employees are continuing the tradition of helping others rather than ex changing Chrisitmas cards. Funds collected go to the Livermore Council for Social
Planning (also known as the Holiday Bureau) to assist those in need in the Deadline for contributions is Dec. 22.
eliminated, not only between Sandia and AEC but also between the line organiza tions and Visitor Control.
Other important features include eliminating the possibility of verbal errors and reducing the volume of paper wor and effort by both Visitor Control and the line organizations. There is no furthe need for Visitor Control's logbook of incoming and outgoing visits, and secretaries are no longer required to process form AEC-277 to request visits to other classified installations. Instead a short information request form (LS-2740-A) is sent to Visitor Control by the employee planning a visit. This information is the authority and basis for direct input into the facsimile machine. Visitor Control notifies the employee when security ar rangements have been completed.
According to Jim McMinn, supervisor of Security Administration and Operations Division 8241, the new Teletype facility is proving to be highly successful. "Installa tion of the system has simplified the whole visitor request and certification procedure, he says. "Its implementation is one of the major advances in the visitor control area during my five years in the security field at Livermore Laboratory.

## Congratulations

Mr. and Mrs. Ted Sneddon (8162), a son, Timothy William, Nov. 22.
Mr. and Mrs. Stefan Folkendt (8162), a son, Bryan Thomas, Nov. 27.
Mr. and Mrs. Jerry Nigg (8156), a daughter, Shari Lynn, Nov. 23
Mr. and Mrs. Dick Demo (8252), a son Mark Edward, Dec. 4
ivid Mirhat. Hal Norris (8148), a son

## Sympathy

To Vern Hudgins (8121) for the death of his infant son in Walnut Creek, Nov. 17 To Howard Schmalle (8116) for the death of his mother in Portland, Ore., Nov 14.

To Irmal Brown (8116) for the death of

## Welcome

Newcomers

LIVERMORE

## Three Sandians Become Registered Professional Engineers

Three Livermore Laboratory employees were recently registered as professional engineers in the State of California fol lowing a written examination held in August.
Larry Bakken (8147) was registered a professional civil engineer; Bernard Kraemer (8111), a professional electrical engineer; and Ron McClellan (8153), a professional mechanical engineer.
To qualify for registration, applicant must present evidence of satisfactory en gineering experience and pass a written xamination, consisting of two separate ivisions. The first division of the exami nation is in engineering fundamentals, and is known as the "Engineer-in-Train ing" examination. The second division is called the "Professional" examination. Its purpose is to examine the candidate in the specific branch of engineering for which his application is made

Sandian Appointed to Chabot College Advisory Committee
 Lorena Schneider (8234) has been appointed a mem ber of the Secretarial Advisory Committee to the Technical - Vocational Education and Business Education Departments of Chabot College in Hayward.
The Advisory Committee is one of 20 ccupational committees which have been established to promote closer relationships between the college and the community
Composed of representatives from business and education, the committee will meet periodically to review current vocational and business curriculum and to suggest new programs which may be needed
Lorena has worked at Livermore Laboatory as a secretary to the Director of Systems Development and is currently a taff assistant in the Public Information Division. She joined Sandia in Albuquerque in April 1952 and transferred to Livermore Laboratory in January 1957.
Lorena attended Bryant and Stratton Business College in Buffalo, N.Y., and Diablo and Chabot Colleges in California.

## Livermore Notes

Walt Frykholm (8212), Personnel Representative and College Relations Coordinator at Livermore Laboratory, addressed graduate class at California State College graduate class at Califo
in Hayward on Nov. 29 .
He spoke generally on Sandia's employ He spoke generally on Sandia's employ-
ment policies as they pertain to education, emphasizing the use and need for technical institute graduates.
Students enrolled in the class include school teachers working toward a counselling certificate or high school counsellors seeking additional course work

Tickets are on sale for a new series of foreign and American films sponsored by the Lawrence Radiation Laboratory Recreation Association Film Society for LRL or Sandia employees and members of their immediate families.
Twelve films will be presented beginning Jan. 13, 1966, at 8 p.m. in the LRL Auditorium, Bldg. 111. All foreign language films have English sub-titles

Further information and tickets at $\$ 2.50$ per person for the entire series are available from LRL Personnel Services, Pat Jordan, ext. 7051.

The Livermore Duplicate Bridge Club of the Lawrence Radiation Laboratory Recreation Association is expanding its activities by offering a weekly Thursday night game in addition to the regular Monday night game. The club meets at 7:30 p.m. in LRL's west cafeteria, Bldg. 199. Those interested may obtain additional information by contacting Don Groves, LRL ext. 7321 .

Jerry Jones was re-elected president of the Student Education Loan Fund (SELF) of Livermore for 1966 at the annual membership meeting held recently.
At the same meeting Jerry Maloney (8112) was elected vice president and Mrs. Eleanor Reed (wife of Howard Reed, 8111) was elected corresponding secretary for the year.
SELF provides money for deserving students from the Livermore area who need funds to continue their education. Loans totaling $\$ 1200$ were awarded last year. Interest-free loans are granted on the basis of the student's application, a personal interview by the awards committee, and recommendations. "Because of the successful fund raising drive conducted this summer, there is presently about $\$ 6000$ in the treasury," said Jerry. Applications may be obtained by contacting Livermore or Granada High Schools or Jerry Jones, ext. 2801.

VISITING LIVERMORE LABORATORY recently for general orientation and a review of patent activities was C. H. Nanz, Assistant to the General Patent Attorney for Western Electric Company. Pictured here during a tour of technical areas are (l to r) A. D. Pepmueller 6010; Mr. Nanz; and J. D. Foster (8162), who demonstrated the principles of operating one; Mr. Nanz; and J.



CHECKING COLOR REPRODUCTION at Ward Anderson Printing Company, where the LAB
NEWS is printed cover artisit Janet Jenkins talks with A. R. "Whitey" Rudolph, Offset DeNEWS is printed, cover artisit Janet Jenkins talks with A. R. "Whitey" Rudolph, Offset De
partment foreman. Multi-colored cover was achieved economically through various screens of three basic colors-black, yellow, and red.

## Universal Symbol of Christmas Depicted by Cover Artist

This year's LAB NEWS color cover was designed by Janet $L$. Jenkins who used
pictorial suggestions of stained glass and

## Promotions


traditional tree to carry out the universal symbol of Christmas
Janet is a graphic designer in Commercial and Animation Art Section 3463-3. She worked at Sandia as a summer employee in 1960 and returned last July on a permanent basis. In the intervening period, she painted in Europe, was an arts and craft Virector for U.S. Army Special Services in throughout the world, and worked as commercial artist in San Francisco
She has a Bachelor's degree in Fine Art and a Master's in Art from the University of New Mexico. This fall she won the top print award at the Biennial Fiesta Exhibi tion of the New Mexico Fine Arts Museum

## Sandia Speakers

P. J. Chen (1116), "Acceleration Waves in Rheological Materials," seminar at Louisiana State University, Nov. 22, Baton Rouge, and Tulane University, Nov. 23, New Orleans.
H. M. Meidal (4232-4), "Surface Plate Inspection Techniques and Equipment,' ASQC Inspection Workshop, Dec. 9, Al buquerque.
C. L. Stoner (2452), "Inspection Through the Use of Coordinate Measuring Machines," ASQC Inspection Workshop, Dec. 9, Albuquerque
R. A. Graham, J. R. Holland, and O. E. Jones (all 5133), "Identification of the Shock-Wave Induced Solid-State Transition in Ge," American Physical Society meeting, Dec. $20-22$, Los Angeles. Mr Graham will make the presentation.
M. M. Robertson (1122), "Airborne Infrared Investigation of the Flash Spectrum and Corona during the May 30, 1965, Eclipse" and "Airborne Photoelectric Coronal Intensity Measurements during the May 30, 1965, Eclipse," Solar Eclipse Symposium, Dec. 16-17, Moffett Field, Calif.
N. C. Anderholm (9233), "Sandia Aircraft and Expedition Summary," Solar Eclipse Symposium, Dec. 16-17, Moffet Field, Calif.
F. K. Truby (5122), "Applications of ESR Techniques to the Study of Energy Deposition Processes in Organic Solids,"
Highlands University seminar, Nov. 18. Highlands University seminar, Nov. 18 Las Vegas, N. M.

## Congratulations

Mr. and Mrs. R. C. Fletcher (5000), a
son, Russell Grant, Nov. 16 . son, Russell Grant, Nov. 16.

## Sympathy

To Ralph W. Ambrose (4517-1) for the death of his wife in Albuquerque, Dec. 7 To L. G. Wise (5234) for the death of his infant daughter in Los Lunas, Dec. 10

PAGE FOUR
LAB NEWS
DECEMBER 17, 1965

## Psychologist Assists African Country In Selecting Best Qualified Students

Three months in a new African nation helping the natives of that country solve their own problems was an assignment Fred was granted a O. Carleton. from Sandia to serve as a consultant to the U. S. State Department's Agency for International Development (AID) program in Nigeria. At Sandia, he has worked as an industrial psychologist in the training organization and is presently assigned to Clinical Psychology Division 3342.
AID was established by Congress in 1961 to assist underdeveloped countries to maintain their independence and become self-supporting. It follows other post-World War II economic or technical assistance programs offered to foreign countries: United Nations Relief and Rehabilitation program (UNRRA), European Recovery Program (Marshall Plan), the Point IV program, etc.
The fundamental U. S. interest in the 30 independent African countries is to help these new nations achieve effective self-government, economic and social growth, and the ability to respond to the needs and aspirations of their people Each AID project must be something the foreign country wants and is willing to contribute to both financially and by providing native specialists for training and leadership.
Fred's specific job was to help set up an aptitude testing program suitable for use in selection of students for various levels of education. "This is an important function," he explained, "because due to the shortage of teachers and facilities, there may be 5000 applicants for a trade school which can only accommodate 100 students. A way must be found to select the best qualified students who can benefit the most from the education.
A National Aptitude Council has been established and by 1967 is expected to test at least 200,000 persons per year for academic sources (universities, trade schools, and technical institutes) as well as for business, commerce, and industry. The American AID specialists work with Nigerian counterparts to help them develop the capability to continue the program unaided.
The office is located in Lagos, the capital of Nigeria, and includes three or four Nigerians who recently completed a graduate-level training program at the University of Pittsburgh. The balance of the native staff of 30 includes clerical help and a data processing group. Tests are scored both by hand and by machine.
"There is no drop-out problem in Nigerian schools, unless a family becomes financially unable to send their children to school," Fred noted. "Generally speaking, the children are anxious to learn and do well in an examination."
Two afternoons a week the Council gives standard clerical tests for various Nigerian industries. Tests are also being adapted to select the best candidate for a commercial pilots training program and for schools for radio and ground maintenance.
Fred spent a few days in Ghana conferring with officials of VALCO (Volta Aluminum Company), a Kaiser-ReynoldsAlcoa combine which will use hydroelectric power from the Volta dam when it is completed. The plant will eventually employ 5000 persons and tests are being worked out to make sure training will be


NATIONAL APTITUDE TESTING UNIT is lo cated in this building and helps to assure qualified students for the limited schools and universities in Nigeria. The unit is opand Nigerian Ministry of Education.


DOWNTOWN LAGOS has modern buildings ican city.
given those best able to use the know ledge.
Since Nigeria is a former British colony English is the official language and Fred found many conditions in Lagos similar to those in American cities. There are supermarkets offering a wide variety of frozen and canned foods, and both local and imported meats are available, although local beef is not well aged. The open markets are used mainly by the Nigerians. "Housing was modern but expensive. In most cases, Americans have to pay two or three years rent in advance and forfeit the balance if they don't remain that long, he said. Fred was quartered in a large, modern apartment which was sublet from the Ford Foundation and paid for by the Nigerian Government. His family did not accompany him.
He described the weather as "similar to summer in New Orleans, with temperatures between $70-90^{\circ}$ and intermittent showers." His stay extended over two months of the rainy season.


Sandia Corporation cost improvements of $\$ 3,189,900$ accruing over the two-year period ending Dec. 31, 1966, have been reported to the Atomic Energy ComImprovement Division 2563
The savings were the result of a Company-wide program for cost improvements, coordinated by Division 2563, and the Value Engineering workshops attended by more than 800 Sandia technical personnel. In addition, some 200 persons from Lawrence Radiation Laboratory, ACF, military, and other government contractor personnel have attended the Sandia VE training sessions.
Using a double-barreled approach of encouraging all Sandians to be cost conscious in their day-to-day activities plus teaching value engineering techniques to Sandia's technical and administrative personnel, the Company is confident that Sandia can achieve even more effective use of budgeted funds. All Sandia employees are eligible

According to the cost improvement criteria devised by Sandia's Cost Improvement Policy Committee, cost reduction actions must save appropriated or programmed funds and have an impact on a firm financial plan. The action must reduce the cost of an existing product or method of operation. Cost improvement actions are credited as cost avoidances if they reduce the amour expenditure of funds. Savings can be claimed upon implementation of an action saving $\$ 100$ or more, and savings are projected through a two-year period.
Not acceptable as true cost improvement are actions made as a routine or obvious choice, curtailments of programs or schedules, postponement of expenditures, or corrections of errors. Other factors are also considered by the Cost Improvement Policy Committee before the proposed cost to the AEC.

Substantial Savings
Typical of the 42 cost improvement cases which achieved the $\$ 3$ million figure reported to the AEC are the rof activiwich are result in substantial savings.
H. C. Psillas (2541), manufacturing development engineer for a component, as part of a cost improvement effort, reexamined the tooling required for the production of an end cap. The end caps were being produced one at a time from a single mold. Mr. Psillas discovered that the mold could be redesigned to yield two end caps instead of one for the same labor costs. Accumulated savings amounted to $\$ 8,700$.

Cost Avoidance
Another cost improvement action, classified as cost avoidance, involved the modification of an existing oscilloscope rather than purchasing a new special purpose oscilloscope. The idea was suggested by G. S. Mills (2443

Rather than buying a $\$ 3000$ dual-beam oscilloscope which was needed for a project Mr. Mills determined that a Tektronix type 507 oscilloscope, which Sandia had in stock, could be modified to use a dualbeam. New parts and labor tor the modilation aliture of about $\$ 2500$. bout $\$ 2500$
Other cost improvement actions reported to the AEC ranged from conducting approved programs on a more austere basis and specifying less expensive materials or components, through ing changes in administrative procedures
ing changes ad Approximately $\$ 500,000$ of the total cost improvement actions reported to the AEC training workshops conducted by Division 2563.

## VE Workshops

Since the Value Engineering program started at Sandia in May 1964, 15 two-week workshops have been conducted with a total attendance of 505 . and 21 four-hour orientation sessions have been conducted the a total attendance of 512 . Eventually, 's technical staff and to many of the dia's technical staff and to many of the dministrative staff
Value engineering transcends traditional ost reduction activities by applying new and the functional worth of a product

Goal is to provide the required product function at the lowest sound cost withou compromise of quality, reliability, or safety.
In the training workshops, participants are divided into teams and apply the VE echniques to current Sandia projects or procedures. Although training is the pri mary purpose of the VE workshops, the participating teams have made recommen dations which have resulted in significan savings. Other recommendations of the VE teams are being considered for implementation.
Typical of the team's work is the cost improvement study performed by R. S. Summers (2443), John Kirby (2132), J. F Durrie (1543), Joseph Suknot (2211), and R. E. Wonderlich (2562). The group was formed during the 11th VE Workshop conducted in May 1965.
The group was assigned a protective de vice, part of a handling equipment sys tem, as its project. Function of the de vice, a rear cover plate, was to retain the plate and protect personnel in case of in advertant firing of an explosive switch.
The system used four blast-shield as semblies, each consisting of a foamed aluminum honeycomb cylinder, a stee backup washer, a countersunk bolt, and a high-strength internal wrenching bolt These assemblies were constrained by chain assembly which also contained the part identification number and a warning flag.

## Workshop Activity

First phase of the team's VE activity was to examine each of the 43 parts of the device, determining their functions, and production costs. At that time, a complet assembly cost $\$ 93.38$ to produce.
Second phase of the VE activity is called the speculation phase. During this period team members developed 78 ideas as pos sible methods of performing the sam function at less cost

Each of these ideas was analyzed during the third phase of the activity and the more promising possibilities were selected team concentrated on eliminating the foamed aluminum honeycomb cylinder which functioned as a shock absorber to cushion a possible blast. This part ac duction cost of the protective assembly
The team ran a series of functional tests The team ran a series of functional tests evaluated the results, and determined that the honeycomb cylinder could be eliminated by redesigning the bolts. Costs of change supplier, and furnishing new tooling were computed
The team determined that the chang could be accomplished and that the de livered production assemblies would cost about $\$ 13.50$, saving about $\$ 80$ per assemby. After deducting the cost or the design could be realized.
The project engineer for the protective assembly, J. O. Phillips (1543) determined


BOB SUMMERS (2443), right, team leader for a VE Workshop project, discusses the
team's recommendations with J. O. Philteam's recommendations with J. O. Phil-
lips (1543), project engineer for a protecfive device on a handling system. The team's efforts effected an $\$ 80$ per unit
savings in the production of the assembly.


DISPLAY BOARD highlighting examples of cost improvement actions of Sandia employees will be displayed in various Laboratory buildings in coming weeks. Al Smailer (2563) re ports that ine examples will be changed periodically to recognize new cases. The program
accrued approximately $\$ 3,200,000$ in cost improvements over a two year period
that the change would not alter the function or design intent of the protective assembly. He approved the team's proposal and issued the necessary change orders.
In another VE workshop project, a team challenged all requirements and specifications for explosive valves. Investigation of destructive test requirements and consultatons with reliability engineers and the dation to reduce destructive tests by 60 percent. This could be achieved without sacrifice of reliability D. H Swanson sacrifice of reliability. D. H. Swanson (8126) and G. R. Waymire (8168) implemated savings of $\$ 427,000$.
Members of the workshop team were C. T. Duffey (8156), M. E. Brown (8142), H. L. Brumfield (8115) and D. R. Chris tensen (8116)
These two examples illustrate the kind of savings that can be accomplished with more Sandia personnel are trained in their se, the VE evaluations will be performed arlier in the desion stares of hardware eariier in the design stages of hardware of budgeted funds, the goal of the VE training.

Consulting Studies
In addition to the training activities, Division 2563 has conducted several value engineering studies at the request of project groups.
Any Sandia organization that desires to have a VE study performed may request the assistance of Division 2563 in organizing and conducting the study. The Division works with the requesting organization in securing a four- to six-man team from appropriate Sandia organizations and proserve as the VE team leader.
The team then operates independently, reporting its recommendations directly to the requesting organization for consideration and possible implementation.
To date, five such VE studies have been conducted and several of the proposals are being implemented.
Elmer Devor is supervisor of Value Engineering and Cost Reduction Division 2563. The division's staff includes Glenn Anderson, John Hueter, Reuben Minter, Ken Sarason, Al Smailer, and Lee Stinnett. with auditing cost improvement cases. All are available as consultants to other Sandia organizations to help with cost improvement studies.

## PAGE FIVE

LAB NEWS
DECEMBER 17, 1965


GENE DORNEMAN (2212) displays wood Badge, "the PhD of Scouting," which he earned recently. He serves on the Kit Carer's staff.

## E. T. Dorneman Earns Scouting Wood Award

The Wood Award, "the PhD of scout ing," was awarded recently to Eugene T Dorneman (2212). To earn the award Gene completed the requirements of a three-phase program of service, camping, and writing a "thesis" on the philosophy of scouting.
Gere is currently serving on the Neighborhood Commissioner's staff of the Kit Carson Council working primarily with training programs for adult scout leader. He averages about 18 hours each week on scouting activities.
Before coming to Albuquerque in July 1963, Gene served seven years as an asscout master in Hazleton one year as "It was the same
to when I was a kid," Gene that I belonged meant a great deal to me then it scouting I want to pass on the same feeling I had to other boys. The Scouts have a fine program for character building, citizenship training, and physical fitness.
As a Scout, Gene earned Eagle Scout rank and the Explorers Silver Award. He also holds the Scout Training Award for adult service.
"I have more fun than the kids," Gene says


READY TO GREET the New Year in appropriate style are Mr. and Mrs. O. B. Tjeltweed. Tickets are now on sale for the Coronado Club's annual New Year's Eve party. Ozzie
$(5632)$ is president of the Coronado Bowling Club and his wife, Millie, is an ex-president 5632 ) is president of the
of Sanado Woman's Club.

## Favors and Fun At Coronado Club

 New Year's EveGreet the New Year with
iends at the Coronado Club.
The Club's popular New Year's Eve pary will feature hats, noisemakers, and coneach couple to make toasts in 1966.
There will be two bands for dancing from 9 to 1: Mike Michnovicz and his MBC Trio will be playing in the main ballroom; in the Eldorado room, it will be Tommy Kelly and his combo.
After midnight, a New Year's Day breakfast will be served.
Tickets are $\$ 3.75$ for members and $\$ 5$ for guests, and must be picked up in advance at the Club office

## Other Club Activities

## Christmas Parties

Organization Christmas parties continue o keep the Coronado Club jumping. Tonight Division 3232 and Departmen 2220 will be using the Club fackils, and organizations 5600 and 4500 wil have sat annual holiday season festivit urday.

The last such party before Christmas will be on Dec. 23 when Organization 9400 will sponsor a get-together.

## Social Hours

There are no social hours during Decem ber, but social hour prices are in effect at the Club from 5-6:30 p.m. on Fridays

Dec. 25
Members are reminded that the Coronado Club will be closed Christmas Day, Dec. 25.

## Bowl Games

For a full day of entertainment (with empathetic sports fans), plan to watch the football bowl games on New Year's Day on the Coronado Club's color TV set. The games will start at 11 a.m. and continue until 10 p.m.

Game Nights
There will be no Game Nights during December but this regular Wednesday night event will resume Jan. 5 .

## Events Calendar

Dec. 18-19-"Sleeping Beauty" pantomime by Sandia Showmakers, Bldg 204, Sandia Base. Matinee both day at 2:30 p.m, Dec. 18 eveuts 50 cents, Tickets at door, adults 50 cent children 25 cents.
Dec. 19-Cabezon Peak (volcanic neck in the Rio Puerco Valley), N. M. Moun tain Club, leaders Jack Kutz, tel, 255 9781 and Gary Holcomb, tel. 298 3802.

Dec. 24-Annual luminaria tour through the Country Club area and other parts of Albuquerque.
Dec. 25-Indian dances after Christmas church services at some of the Pueblos.
Thru December-"Three Cultures of New Mexico," Museum of the Albuquerque Historical Society, sion in December-Trout fishing in the Rio Grande.

## Dick Dillon New Head of State CAP Activities

Dick Dillon of Advanced Systems Studies Staff 5590 is the new Commander of the New Mexico Civil Air Patrol. The an nouncement was made last week by the National CAP Board at a meeting a Ellington Air Force Base, Tex., concurently with Dick's promotion to the CAP ank of Colonel.
Dick joined the CAP as a pilot in Albuquerque Senior Squadron 2 in 1958 He first held the office of Special Project. Officer then Director of Emergency Services, both at the Wing or state-wide level. He has bee Squadion 2 since October 1963. He hold multi-engine, single engine land, singl engine sea, and instrument ratings in the CAP.
Major objectives of the CAP, which marks its 24th anniversary this month are to promote general safety in flying, conduct search and rescue promote aviation education
H. A. Moculeski (2533) as CAP Wing Deputy for cadets, helps direct a statewide program for young CAP cadets, both boys and girls, 18.

Austin Glover (3433) is the new comwho are officers in the squadron include H. H Patterson (9230), wing standardiza H. Faluation officer. Howard Wicke tion/evaluation officer; Howard Wicke (9312), PIO officer: Harry Mason (9232) (9312), Pel officer Poger Everett (9322) personce fficer. Tom McConnell (9233) assistant maintenance officer: Jim Moreassistant Dick ( 0 ssett (9232) administrative offier. and Zack Ortiz (5151), supply officer


FIRST AND SECOND PRIZES in recent National Association of Industrial Artists competition Gordon Snidow, R. J. Mickey, T. I. Baggett, and J. B. Walston (seated) chanic in Mainte-4512-3.

## Deaths

J. Verlin Hunt, retired Sandia Corporation employee, died Nov. 27 in Chicago hospital. At the time of his retirement in Au gust 1959, Mr. Hunt was a staff assistant in Control
 his widow, Ruth, also a rormer sandia employee who ives in spiceland, Iaughter in Phoenix. and a sister Mrs, Martha Nicholson of Albuquerque.

James A. Skidmore, a Sandia employee for more than six years, died Nov.

48
He was a refrigeration and air conditioning me-
chanic in Mainte-


DON FISHER (3134) displays the trophy which his team won in the recent Sandia Open Team of Four Bridge Tournament. The annual event originated in 1960 and has always been a close contest. The win ning team won by just a half point

## Life Master Don Fisher Leads Victory Team In Bridge Tourney

Don Fisher (3134), Life Master of the American Contract Bridge League, led the Sandia Laboratory championship open team of four to a half point victory in the recent Sandia tournament. Other team members were Dick West (1422), Ernie
Bowman (1425), and George Arnot (1422). Eleven teams competed for the title.
Don is the only Life Master at Sandia, one of 50 in Albuquerque, and one of 7000 in the country. To earn Life Master status, a bridge player must have accumulated 300 master points in both local and national competition.

Newly elected officers of the Sandia Laboratory Bridge Association are Joe Connell (2113), president; Dick West (1422), vice president; Gloria Putnam 9324), past president. Gene Rios (4211) and Mr. Arnot, board members.

PAGE SIX
LAB NEWS
DECEMBER 17, 1965

## National Industrial Art Awards Won by Members of Div. 3463

Examples of industrial art created by members of Sandia's Technical Art Division received a number of awards during the third annual exhibit of the National Association of Industrial Artists n Washington, D. C
The display will hang in the main lobby S. Department of Commerc dilding Dhrough December after which it will go on tour for a year. The itinerary arevidence Rdiand, Detroit, and ndianapons.
J. B. Walston won first place in the category Visual Aids, Displays. His entry was a safety slogan card which folded into a box.
Second place awards went to T. I. Baggett for Line Rendering, Assembled lews, R. J. Mickey for Line Rendering, exploded, (he also won a "third" in this category, and Gordon Snidow for his Aids, Displays, Visual Aids, Posters; and Visual Aids, Drojectorals (also a third) Visual Aids, Projectorals (also a third
Other third prize ribbons were won by Leo Ortiz for Continuous Tone Rendering, C. L. Hawk entry in Line Rendering, C. L. Ha
Assembly.

Those receiving honorable mention were T. I. Baggett/Harkey Boling entry, M. K. Hamm, W. R. Entwisle, and J. B. Walston/ R. H. McHarney entry

15 Years


${ }^{4} \frac{1}{2535}$
${ }_{4613}{ }^{\text {siar }}$


10 Years


## Welcome

Newcomers
Nov. 15. Dec. 10



RECEIVE CERTIFICATES-Final class of security inspectors complete 16 -hour Radiological local Civil Defense Organization, to Jack Rich and B. L. King (both 3242). A total of 132 security inspectors completed the course.

## Part of a Continuing Program

## Security Force Completes Course In Radiological Monitoring

The final group of Sandia's Security force completed this week a 16 -hour Civil Defense course in radiological monitoring Part of a continuing education program to meet emergency situations, the course was in addition to earlier sessions on fallout shelter management and on radiological hazards.
A total of 132 Sandia security inspectors have received certificates from Col Clinton M. Roth, director of the Civil Defense Organization of Albuquerque and Bernalillo County. The course used standard texts and training materials prepare by the Department of Defense, Office of Civil Defense.
Course material, instrumentation, and radioactive sources were under the supervision of George W. Dunham, local Civil Defense Training, Education, and Radiological Officer. Instructors were Mr Dunham and Justin S. Fuller. They were assisted by George Thorne and Glen Goodloe of Emergency Planning Division 3245
Course content included familiarization with Civil Defense radiation measuring equipment-survey meters and dosimeters -and the techniques for measuring gamma and detecting beta radiation. Part of the course was a problem-solving exercise in conducting emergency missions in a radiation environment.
In the event of an emergency, Sandia's security force would augment Health

Physics personnel or direct emergency activities during non-operational hours
"Interest and enthusiasm for the course was maintained at a high level," Mr. Thorne said. "Our guard force is quite receptive to this kind of training. Future refresher courses will contin-
ue the training and keep Sandia extremely ue the training and keep Sandia extremely
well-prepared for emergency situations."

## Take Note

The Sandia Base Protestant Chapel Choir will perform the Christmas part of Handel's The Messiah at both 9 and 11:15 a.m. services on Sunday, Dec. 19. Chaplin Charles Arnold will assist in the service.
Mrs. William Simpson (whose husband works in Division 2552-3) is minister of music at the chapel and will be at the organ for this presentation. Soloists will include two other Sandia wives: Mrs. O. L. Wright and Mrs. R. M. Elder. O. L. Wright (4610), Marie Ream (3100), and K. E. Sutton (3222) will sing in the choir.

## Early Deadline

Due to the forthcoming holidays, there will be an early deadline for Shopping Center ads for the Dec. 31 is-
sue of the LAB NEWS. The next deadline will be Tuesday noon, Dec. 21 .

## SHOPPIN3 GENTER

## - SHOPPING CENTER




 80 . shater 299.0211 .
 57 DES5OT, 5250 . MCeemott, 298.5855.


 REEITITEEE Airedie
 craiee ,25590033,
55 WaTt Heatacit amplifier and pramp, made
 Mountaiw cainv, Guss mountin 20 miles notht

 neat senging bibal









## SHOPPING CENTER

DESK w chair,



 Hent Thile texi.gx 1.
Schwink biecle, girl's 20", s25. Zomiri, 256-
2 chessis of orawers, mathing, bland, 4 , STEEL SHEVVES: train , set wincessoris; Custman
 Hien wo.






 ORESSING TRABLE, w/minor and bench, Nichols,

 Cines.





## SHOPPING CENTER

## SHOPPING CENTER

Smirtit \& Wesson K .38 materivee. Lon, 265 .
 LAREE WONDER SPRIIIG Hoosse, s10. Dubbins, STEREDE Silitatene blond oak corssele, S65. Her-





AfGHAN HouNo pufsi outsanding lloadiness



 54 FER20 6. ${ }^{50}$, s150; crib and mattres. Tuffs,












wonoer hoose, lame size, Kridht, 299.3783

 4


## FOR RENT



## WANTED




 ${ }^{4069}{ }^{409}$ Jungle $\quad$ gym. Trump, 299.5162








## LOST AND FOUND


 yerlent sear: Lios


Nat'I Award Honors Tech Training Efforts Of M. A. McCutchan M. A. McCutchan, supervisor of Employee Training and Education Division week for his activities in the field of vocational education. He received the American Vocational Association's Award of Merit for "significant contributions to the nation's programs."
The award was presented during the group's annual convention in Miami Beach, Fla.
Mr. McCutchan currently serves as chairman of the New Mexico Vocational Advisory Council and chairman of the State's Manpower Commission. In the past, he has held key positions in various city,
county, and state committees working for county, and state committees working for
the establishment of three vocationalthe establishment of three vocational-

State Legislative
Delegation Tours
Sandia Laboratory
Members of the Bernalillo County State legislative delegation visited Sandia Laboratory yesterday for a briefing by S. P. Schwartz, Sandia Corporation President, and a tour of Laboratory facilities.
Mr. Schwartz discussed the mission of the Company, current projects, and applications of Sandia Corporation developments to private industry. The group viewed the movie, "Clean Air is a Breeze," at the Sphere of Science and then toured Sandia clean room facilities adjacent to Bldg. 892.
After a luncheon at the Coronado Club, also attended by AEC officials and mem ers of the Sandia small staff, the legis lators toured Environmental Testing fa-
cilities in Area III.
The in Area III.
The tour was arranged by Community Relations Division 3433.

## Accident at Sandia

A Sandia employee in Heavy Equipment Section 4573-3 was injured on Dec. 1 when the road grader he was operating struck a large rock buried on the Coyote Canyon
Road. The grader came to an immediate stop, and the employee was pitched rond and a against the angle iron wiscident caused a possimetal lever. The accident caused a prain He was released from Bataan Hospital on Dec. 3, and ordered to remain off work for several days. He is now back at work, although under some work restrictions.
The Sandia Laboratory record was at $5,678,680$ man-hours (159 days) at the time of the accident.


Claudia Garlick (3126)
Take A Memo, Please When the Christmas tree is brought inside and trimmed, watch out for dryness burning from the bulbs, frayed cords, an open flames.

## Former Sandian Jack Howard Returns For Visit as Chairman of MLC Group

Many old friends and former associates of Jack Howard caught a fleeting glimpse of him as he led a group of Washington visitors through a whirlwind briefing at
Sandia one afternoon last week. The "man in motion" is one of Sandia's most disin motion is one of Sandia's most disvital assignment in Washington.
The Honorable W. J. Howard, Chairman of the Military Liaison Committee to the Atomic Energy Commission and Assistant to the Secretary of Defense for Atomic Energy (his official title), was accompanied by some 15 high ranking officers, most of whom are members or alternates on the Military Liaison Committee. The orientation and briefing took them first to Livermore on Tuesday where they visited LRL and Sandia Livermore Laboratory personnel, then to Albuquerque for a oneday, three-phase briefing which started in the morning at Los Alamos and ended with tours of Sandia Laboratory and Defense Atomic Support Agency. They visited Pantex at Amarillo Thursday before returning to Washington.
For Mr. Howard, who was appointed to his position as Chairman of the Military Liaison Committee (MLC) by President Kennedy in November 1963, the visit to Sandia was one of several during the past two years. For some members of the Committee, however, it was a first-time visit. The Chairman is insistent that they know as much as possible about the activities weapons development laboratories. By law the MLC is designated as the link between the military (DOD) and civilian (AEC) agencies concerned with the use of atomic energy for military purposes.
The Atomic Energy Act of 1946, referring to the MLC, says: "The Commission (AEC) shall advise and consult with the Department of Defense through the committee (MLC) on all atomic matters which the Department of Defense deems to relate to military applications of atomic weapons or atomic energy, including the development, manufacture, use, and storage of atomic weapons; the allocation of special nuclear material for military research, and the control of information relating to the manufacture or utilization of atomic weapons; and shall keep the Department of Defense, through the Committee, fully and currently informed of all such matters before the Commission."

With 17 years experience in the weapons development business at Sandia-the last seven as Director of Systems Development at Livermore-Mr. Howard was a natural choice to succeed Dr. Gerald W. Johnson Committee. He has worked in the Committee. He has worked in the
weapons program since 1946, when he joined the Sandia staff shortly after his discharge from the Army at the end of World War II. He held a succession of supervisory appointments before going to Livermore in 1956 to head up the new Sandia facility there.
R. W. Henderson, who led the Sandia Corporation portion of the MLC briefing in the absence of President S. P. Schwartz, voiced the view of all Sandians when he said:
"Sandia and the AEC are fortunate indeed to have a man of Jack Howard's experience and understanding in the job of Chairman of the MLC. His personal knowledge of the problems associated with the development of nuclear weapons, and his appreciation of our capabilities, help us do a better job for the DOD.
A big "plus" factor for Mr. Howard, in carrying out his heavy responsibilities, is his long association with Harold Brown and John Foster, both former heads of the Lawrence Radiation Laboratory at Livermore. Mr. Foster recently replaced Mr. Brown as Director of Defense Research and Engineering. Mr. Brown is now Secretary of the Air Force. Mr. Howard works closely with DDRE in his capacity as Assistant to the Secretary of Defense for Atomic Energy. This phase or the job is a most demanding one and that is why he spends more of his time in his Pentagon office than in the MLC office at AEC headquarters in Germantown, Md.
Shuttling back and forth between the two offices is an inconvenience taken in stride by the youthful ( 43 last August) Mr. Howard. "They taught me in the Army said with a grin. "Actually, the new belt-


VISITS SANDIA-W. J. Howard (left), Assistant Secretary of Defense for Atomic Energy and
Chairman of the Military Liaison Committee to the AEC visited oratories last week with a group of military officials, from Washingan an Handia Laboratories last week with a group of military officials from Washington. Mr. Howard has been with Sandia since 196 and was Director of Systems Development at Sandia Liver outside Bldg. 892, where part of the briefing was conducted are: Maj. Gen. Austin W. outside Bldg. 892, where part of the briefing was conducted are: Mai. Gen. Austin W. of Military Application; L. P. Gise, Manager, Albuquerque Operations, AEC; and R. W. Henderson, Sandia Vice President, who was in charge of the Sandia briefing.
way around Washington, D. C., makes it possible to get back and forth fairly quickly, and I can get some work done while someone else drives."
Heading the MLC staff in Germantown -preparing the agenda for the weekly meetings of the Committee-is Col. Sidney C. Bruce, one of the group at Sandia last week, who serves as executive secretary. Members of the MLC in the party with Mr. Howard were: Maj. Gen. Arthur C Agan, USAF; Maj. Gen. Austin W. (Cy) Betts, USA; and Brig. Gen. Donald G Grothaus, USA. Each branch of the armed forces has two members on the Committee. The other members were unable to make the trip.
Also in the party were: Brig. Gen. Glenn A. Kent, USAF alternate; Col. W. K Benson, DASA (observer) alternate; Col N. J. Oswald, USAF, JCS (observer) alternate; Capt. A. B. Smith, Jr., USN, Navy alternate; Col. H. V. Scarborough, USMC member of MLC staff; Col. Roger Ray and Col. C. F. Byers, for USAF ASTD (AE) staff; Col. F. F. Hart, USAF staff; Maj J. M. VanderVoort, Jr., MLC staff, and Maj. E. J. Shattuck, Jr., USAF, MLC staff.
Participating in the briefing in the Training area, Bldg. 892, with Mr. Hender son was Larry Gise, Manager, Albuquerque Operations, AEC. Several Sandia supervisors made brief presentations on specific projects.
Asked how he likes Washington, Mr Howard said: "I didn't go there for tha purpose." He admits he finds the daily routine a bit hectic, especially the traffic but Washington has advantages. His wife Georgia, and son Andy (a 7th grader) ar fascinated by the national historica shrines and cultural attractions. They are avid followers of history in the making and try to take in all the important functions, such as the inauguration, Congress in ac tion, the Supreme Court.
The family is looking forward to Christmas holidays at their home in Alexandria Melissa, a freshman at Occi ental College, Los Angeles, will be home for the holidays.

Mr. Howard, a graduate of New Mexico State, Las Cruces, and a booster of the Land of Enchantment, expects to be back in New Mexico some day. He is on leave from Sandia to fulfill his important assignment.

## Sandia's

Safety Scoreboard

## Sandia Laboratory: <br> 14 DAYS

490,000 MAN HOURS
WITHOUT A
dISABLING INJURY

## Livermore Laboratory: <br> 183 DAYS <br> 912,500 MAN HOURS <br> without A <br> dISABLING INJURY

